What Is Claimed Is:

1. A color filter on array substrate, comprising:

a substrate;

an insulating layer formed on selected regions on the substrate, the insulating layer having a reflective top surface; and

a color filter over the substrate, including over the insulating layer at the selected regions, wherein a thickness of the color filter at the selected regions is thinner than that at beyond the selected regions.

2. The color filter on array substrate according to claim 1, wherein the insulating layer includes a reflective layer having a reflective top surface.

3. The color filter on array substrate according to claim 1, wherein the insulating layer does not extend beyond the selected regions on the substrate, and the selected regions generally define reflective regions on the substrate and the regions outside the selected regions generally define transmissive regions on the substrate.

4. The color filter on array substrate according to claim 1, wherein the insulating layer extends beyond the selected regions on the substrate, and the selected regions generally define reflective regions on the substrate and the regions outside the selected regions generally define transmissive regions on the substrate.

5. The color filter on array substrate according to claim 1, further comprising:

a pixel electrode formed on the color filter.

6. A transflective liquid crystal display device, comprising:

a color filter on an array substrate, comprising:

a first substrate;

an insulating layer formed on selected regions on the first substrate, the insulating layer having a reflective top surface; and

the color filter over the first substrate, including over the insulating layer at the selected regions, wherein a thickness of the color filter at the selected regions is thinner than that at beyond the selected regions;

a liquid crystal element supported on the color filter on the array substrate; and

electrodes operatively coupled to the liquid crystal element.

7. The transflective liquid crystal display device according to claim 6, wherein the electrodes comprise a pixel electrode and a common electrode.

8. The transflective liquid crystal display device according to claim 6, further comprising:

a second substrate opposite the first substrate, wherein the first and second substrates sandwich therebetween the liquid crystal element,

electrodes, the insulating layer and the color filter.

9. The transflective liquid crystal display device according to claim 6, wherein the insulating layer includes a reflective layer having a reflective top surface.

10. The transflective liquid crystal display device according to claim 6, wherein the insulating layer does not extend beyond the selected regions on the first substrate, and the selected regions generally define reflective regions on the first substrate and the regions outside the selected regions generally define transmissive regions on the first substrate.

11. The transflective liquid crystal display device according to claim 6, wherein the insulating layer extends beyond the selected regions on the first substrate, and the selected regions generally define reflective regions on the first substrate and the regions outside the selected regions generally define transmissive regions on the first substrate.

12. An electronic device, comprising:

a liquid crystal display device comprising a color filter on an array substrate, wherein the array substrate comprises:

a first substrate;

an insulating layer formed on selected regions on the first substrate, the insulating layer having a reflective top surface;

the color filter over the first substrate, including over the insulating layer at the selected regions, wherein a thickness of the color

filter at the selected regions is thinner than that at beyond the selected regions;

a liquid crystal element supported on the color filter on the array substrate; and

electrodes operatively coupled to the liquid crystal element; and

control electronics operatively coupled to the liquid crystal display device, controlling the liquid crystal display device to display an image in accordance with display data.

13. A process of fabricating a color filter on array substrate, comprising the steps of:

providing a first substrate;

forming an insulating layer on selected regions on the first substrate, the insulating layer having a reflective top surface; and

forming a color filter over the first substrate, including over the insulating layer at selected regions, wherein a thickness of the color filter at the selected regions is thinner than that at beyond the selected regions.

14. The process according to claim 13, wherein the insulating layer includes a reflective layer having a reflective top surface.

15. The process according to claim 13, wherein the insulating layer does not extend beyond the selected regions on the substrate, and the selected regions generally define reflective regions on the substrate and the regions outside the

selected regions generally define transmissive regions on the substrate.

16. The process according to claim 13, wherein the insulating layer extends beyond the selected regions on the substrate, and the selected regions generally define reflective regions on the substrate and the regions outside the selected regions generally define transmissive regions on the substrate.

17. The process according to claim 13, further comprising the step of:

forming a pixel electrode on the color filter.

18. A process of fabricating a transflective liquid crystal display device, comprising the steps of:

forming a color filter on an array substrate, comprising the steps of:

providing a first substrate;

forming an insulating layer on selected regions on the first substrate, the insulating layer having a reflective top surface; and

forming a color filter over the first substrate, including over the insulating layer at selected regions, wherein a thickness of the color filter at the selected regions is thinner than that at beyond the selected regions;

providing a liquid crystal element on the color filter on the array substrate; and

providing electrodes operatively coupled to the liquid crystal element.

19. The process according to claim 18, wherein the insulating layer includes a reflective layer having a reflective top surface.

20. The process according to claim 18, wherein the insulating layer does not extend beyond the selected regions on the first substrate, and the selected regions generally define reflective regions on the first substrate and the regions outside the selected regions generally define transmissive regions on the first substrate.

21. The process according to claim 18, wherein the insulating layer extends beyond the selected regions on the first substrate, and the selected regions generally define reflective regions on the first substrate and the regions outside the selected regions generally define transmissive regions on the first substrate.